

## **Abstract**

Internet or interconnected network is a global communications system that links computers and computer networks worldwide and it is a technology that is growing very fast. There are so many benefits and uses can be obtained from the internet and the examples are for social media and business media. Twitter is one of the famous social networking in cyberspace. The use of twitter extends into the various fields in society. Many individuals or groups make use of twitter as a means to do business, customer relationship, and for other activities. Therefore, most of the existing data tweet on twitter is an opinion sentence. The problem is with the increasingly widespread use of twitter for that purpose, it needed a way to analyze the opinion sentences effectively and efficiently or commonly known as sentiment analysis on twitter. In this Final Assignment, writer use Dictionary Based Approach and Support Vector Machine method to solve existing problems by classifying opinion sentence tweets on twitter by using both methods. However, the reliability of Dictionary Based Approach and Support Vector Machine in sentiment analysis depends on many factors. Several factors including the effect of stemming on the preprocessing of both methods, the C parameter on the Support Vector Machine method, and the influence of data distribution of the training data for the Support Vector Machine method. The result of experimental evaluation that has been done, shows that the Dictionary Based Approach and Support Vector Machine method is able to solve the sentiment analysis problems. The result of experimental evaluation also shows that the stemming process and the distribution of data in data training can affect the outcome of sentiment classification, while the value of C parameter can't affect the outcome of sentiment classification significantly.

**Keywords:** Twitter, Sentiment Analysis, Dictionary Based Approach, Support Vector Machine, Stemming, C Parameter, Data Composition, Performance